



# Aviation Education News



Distributed Quarterly to Promote Aviation Education and Awareness in Virginia

February 2003

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**Centennial of Flight  
Commission  
Website**

[www.centennialofflight.gov](http://www.centennialofflight.gov)

**How will your school, class,  
or organization be  
celebrating the  
Centennial of Flight?**

Send us a note and  
we'll include your ideas  
in future newsletters.

## Virginia Aviation Teacher's Grant Recipients Selected

Now in its fifth year, the Virginia Aviation Teacher's Grant program provides grants of up to \$250.00 to selected Virginia teachers who have developed aviation-related lesson plans. The grant is used to bring these lessons to life by funding kits, reading materials, software, videotapes, and other necessary supplies.

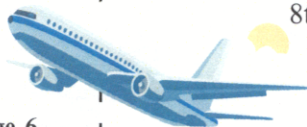
The 2002/03 recipients of Virginia Aviation Teacher's Grants include:

**Kathleen M. Giambattista**, Fancy Gap Elementary School

To bring a new traveling play entitled "The Brothers Wright" to the school. The play will supplement, enhance and support the school's yearlong project on flight and the Wright Brothers and the applicable Virginia Standards of Learning.

**Rusty Galbreath and Mike Beamer**, Glenvar Middle School (Salem, VA), 8th Grade Physical Science/Technology Systems

Students will build styrofoam meat tray gliders. Basic technology will be discussed and then building, launching, and data collection will take place to observe which designs work best.



**Lynn Carr and Sandra Williams**, Cluster Springs Elementary School (South Boston, VA)

The school will hold a Science Olympics. Students will experiment with the four forces of flight. Using "hands-on" methods, students will gain experience in designing and conducting basic experimental investigations.

**Jocelyn D. Cherry**, Oceanair Elementary School (Norfolk, VA)  
Students will read the book "Pilots Fly Planes" and will create and construct their own paper airplanes.

**Christopher C. Merritt, Lt. Col., USAF, (Ret.)** Menchville High School (Newport News, VA)

Students will learn and explain the principles of basic aeronautics and know the operating principles of rocket engines. Students will build and launch a solid rocket model.



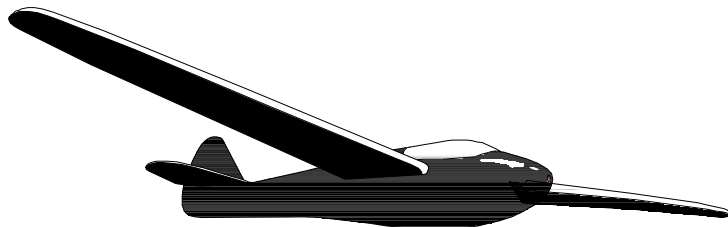
## PRESIDENT'S NOTES

The NASA Langley Research Center's Office of Education (OEd) is working in collaboration with the Virginia Department of Aviation which is an excellent way to maintain two-way communication between federal and state aviation education concerns.

I have just returned from Reno, Nevada where I attended the American Institute for Aeronautics and Astronautics (AIAA). I assisted in forming their latest education venture, Precollege Programs. The other main topic I wanted to share was for engineers, scientists and researchers to make science fun. Become an "Educator Associate" which will bring new energy into the classroom. The benefits are as follows: Participation in local AIAA activities, attend AIAA conference free, tap into AIAA clearinghouse of aerospace information, gain recognition for efforts in education and lastly, qualify for up to a \$200 grant to push your science, math, or related academic agenda forward. They have developed innovative programs for obtaining an AIAA Foundation Education Classroom Aid Grant. For information contact: Lisa Bacon, 800-639-AIAA, ext. 527 or via e-mail lisab@aiaa.org.

This year there is to be a middle school initiative to design, build and fly a glider. It will be small enough so that the winning teams will be able to test fly it in one of our wind tunnels. As soon as more information is available, I will provide it in this news letter.

Peter D. Thomas  
Aerospace Education Project Manager (ViGYAN, Inc.)  
Office of Education  
NASA Langley Research Center



VASEF AVIATION EDUCATION NEWS is published quarterly in support of aviation education in the Commonwealth of Virginia by the Virginia Department of Aviation.

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VASEF NEWS Editor: Betty Wilson

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### VASEF PURPOSE

The Forum is a non-profit organization to promote and foster aviation and space education among public and private schools, colleges and universities, and community and civic groups, and to promote increased public understanding of aviation and space and their economic, social, and career values in our society and in the Commonwealth of Virginia.

*From Virginia Aviation, Nov.-Dec. 2002*

## **NIFA Region X SAFECON Held At Chesapeake Airport**

Flight teams from seven colleges and universities kept things hopping at Chesapeake Regional Airport from November 6-9, 2002. Hampton University, under the leadership of faculty advisor Darryl Stubbs, played host this time to the schools of Region X of the National Intercollegiate Flying Association (NIFA); Region X covers Virginia, the Carolinas, Maryland, and West Virginia. Participating schools besides Hampton were Averett University, Liberty University, Virginia Tech, Caldwell Community College and Technical Institute, Lenoir Community College and U.S. Naval Academy. The airmeet called a SAFECON (Safety Conference) consists of a short cross-country flight, short-field and power-off landings, a message drop event, and several ground events, including a preflight contest, aircraft recognition, simulator, and flight computer accuracy tests. Following a messy arrival day on Wednesday, the weather improved dramatically and remained that way for the remainder of the competition. Most of the students from the competing schools plan a career in commercial or military aviation; NIFA competition is a great networking opportunity and also a good item to list on a job application for the airlines.

Thirty-eight volunteer judges were recruited by Chief Judge Linda Mathias of Windsor, VA and Associate Chief Judge Nick Jones of Chesapeake. Most were from the Hampton Roads area — members of the Hampton Roads Chapter 99s, EAA Chapters 156 and 339, former competitors, flight instructors, and even airline pilots. Department of Aviation pilots Jeanie Carter and Fred Gemeinhardt assisted in judging the landing and message drop events. Judges are not compensated for their time but their expenses are tax-deductible as a charitable contribution to NIFA, an IRS 501(c)3 organization. Judges' school was held on Wednesday and additional briefings for the judges were presented prior to each of the flying events. All events went off on schedule; Chesapeake Regional Airport manager, Joe Love, graciously allowed the judges to take over his conference room for the four days. John Beaulieu, owner of Horizon Aviation, Chesapeake's FBO, loaned the use of his new corporate hangar for the briefings, ground tests, and general gathering area; Horizon mechanics bugged the Cessna 150 used for the preflight event and came up with some innovative discrepancies, such as an airworthiness certificate for a Boeing 747!

On Saturday when all the scores were tallied, the Naval Academy had done it again. The Navy team has placed first three years straight; they displayed the revolving trophy with a surprise modification. Instead of the original light airplane on top, the trophy now sports an F-14!

Individual and team awards were announced and trophies presented at the awards banquet held at the Chesapeake Golf Club on Saturday evening. The competition was close with most of the schools placing high in at least one of the events; Joseph King of Caldwell Community College was the 2002 Top Pilot and will receive \$500 from the Airline Pilots Association. Banquet entertainment was provided by Jim Rowbottom, a former Norfolk State University team member and currently a Navy pilot stationed in Jacksonville, Florida, who filmed and produced a slide show of various events during the competition; he gave the audience some great laughs with hilarious balloon captions on each picture.

By taking the top three places in the regional competition, the U.S. Naval Academy, Averett University, and Caldwell Community College will be invited to compete in the national competition at University of North Dakota in May 2003. We wish them success at Grand Forks



A sincere thanks to all who helped with the SAFECON; nearly perfect weather and a terrific cadre of judges made this year's competition one of the best to date.

### **2003 National Congress on Aviation and Space Education**

NCASE 2003 will take place April 2-5, 2003 at the Hilton Cincinnati Netherland Plaza Hotel in the Wright Brothers birthplace state of Ohio.

Keynote speakers include Erik Lindbergh, who recreated his father's famous transatlantic flight; Gus McLeod who became the first person to fly to the North Pole in an open cockpit airplane; Astronaut Eric Boe; and NASA Engineer Dr. Jack Bacon. Participate in hands-on workshops and experience the history of flight at the U. S. Air Force Museum.

Visit [www.capnhq.gov/conference/](http://www.capnhq.gov/conference/) for more information!



## Virginia Instructor Receives Special Designation

The National Association of Flight Instructor's (NAFI) takes pride in announcing a significant aviation accomplishment on the part of Robert J. Spera, owner of Liberty Flying Service and a resident of Wise, Virginia. Recently, Bob was designated a Master CFI (Certificated Flight Instructor) by NAFI, his professional aviation organization.

In addition to owning Liberty Flying Service, Bob is also the manager of Lonesome Pine Airport (LNP). He serves in the Civil Air Patrol (CAP), works with the Aircraft Owners and Pilots Association (AOPA) Airport Support Network and is an Aviation Safety Counselor for the Charleston Flight Standards District Office (FSDO).

To help put this achievement in its proper perspective, there are approximately 81,000 CFIs in the United States. Fewer than three hundred of them have achieved this distinction thus far. The last seven national Flight Instructors of the Year were Master CFIs while Bob is one of only 10 Virginia aviation educators who have earned this prestigious "Master" title.

The Master Instructor designation is a national accreditation recognized by the FAA that is earned by candidates through a rigorous process of continuing education and peer review. Much like a flight instructor's certificate, it must be renewed biennially. This process parallels the continuing education regimen used by other professionals to enhance their knowledge base while increasing their professionalism. Simply put, the Master Instructor designation is a means by which to identify those outstanding aviation educators, those

"Teachers of Flight," who have demonstrated an ongoing commitment to excellence, professional growth, and service to the aviation community.

Earning this designation is tantamount to having the words *summa cum laude* emblazoned on an instructor's certificate. These Masters truly represent the crème de la crème of our industry! To publicly recognize these individuals and their noteworthy accomplishments, NAFI will be hosting its "Meet the Masters" breakfasts, to which Bob will be invited, during EAA's AirVenture in Oshkosh (WI) and Sun 'n Fun in Lakeland (FL).

NAFI is dedicated to providing support and recognition for America's aviation educators while helping to raise and maintain their level of professionalism. It is also committed to providing a safe and effective learning environment for student pilots. The Association was founded in 1967 and affiliated with the Experimental Aircraft Association (EAA) in May of 1995.

Questions regarding the Master Instructor program may be directed to (303) 485-8136 or [NAFIMasters@aol.com](mailto:NAFIMasters@aol.com) or visit NAFI's web site at [www.NAFInet.org](http://www.NAFInet.org).

## Space Day 2003

Space Day 2003 will take place on May 1, 2003. The theme for 2003 is Celebrating the Future of Flight.

Visit the Space Day web site to access fun activities and to get ideas on how to celebrate Space Day.

<http://www.spaceday.com>.



## National Air and Space Museum Calendar

### Monthly Star Lecture

**Saturday, January 25, 2003**

**Only 18 Months Left Until Venus Transits the Sun**

Dr. David DeVorkin

Every 120 years or so, Venus crosses over the face of the Sun, as seen from Earth. Since it will do so again in 2004, it is time to get ready for this rare event. Review the history of transits and what astronomers hope to learn from observing the one coming up. 6:00 p.m., Albert Einstein Planetarium

### Wernher Von Braun Memorial Lecture

**March 18, 2003**

**Apollo 17: The Last Men on the Moon.**

Apollo 17, the sixth and last Apollo mission in which humans walked on the surface of the Moon, was launched on Dec. 7, 1972 from the Kennedy Space Center. On Dec. 11, astronauts Eugene A. Cernan and Harrison H. "Jack" Schmitt (the first scientist to go to the Moon) landed in the Taurus-Littow region in the lunar module Challenger. Hear the mission commander and lunar module pilot talk about this experience. (See Ticket Information Below)

### Aviation Lecture Series

**March 27, 2003**

**Decisions, Decisions, Decisions**

Marta Bohn-Meyer

### Exploring Space Lecture Series

**Mars Revealed**

Mars is currently the target of one of the most active space exploration programs in history. This year's *Exploring Space Lecture Series*, titled *Mars Revealed*, will delve into the latest ideas in Mars science and our ever-evolving understanding of the planet. Distinguished speakers on the forefront of planetary science will bring Mars into focus and share a new view of this intriguing planet.

**March 6, 2003**

"Postcards from Mars"

Dr. Ken Edgett

**April 10, 2003**

"Mars In A New Light"

Phil Christensen

**May 7, 2003**

"The 2003 Mars Exploration Rovers"

John Grant

**June 6, 2003**

"Lessons from Mars for Life on Earth"

D. E. Brownlee

Lectures are free but tickets are required. Tickets are available at the Lockheed Martin IMAX Theater box office. Tickets can also be obtained through [Tickets.com](http://Tickets.com) by calling (800) 529-2440 or visiting their web site at [www.tickets.com](http://www.tickets.com). There is a small service fee on all [Tickets.com](http://Tickets.com) orders.

**For more information visit:** [www.nasm.si.edu](http://www.nasm.si.edu).

*NASA recently announced that an Educator Astronaut will soon go into space ...*

## NASA's Educator Astronaut Assigned First Flight

NASA Administrator Sean O' Keefe announced that Barbara Morgan, the agency's first Educator Astronaut, has been assigned as a crewmember on a November 2003 Space Shuttle mission to the International Space Station.

The announcement was highlighted with a ceremony at the Maryland Science Center in Baltimore and fulfills the Administrator's commitment earlier this year to send an educator into space in a renewed mission to inspire a new generation of explorers. Morgan's flight represents the first of what is expected to be many flights as part of a new Educator Astronaut program, which will be unveiled in early 2003.

"NASA has a responsibility to cultivate a new generation of scientists and engineers," said Administrator O' Keefe. "Education has always been a part of NASA's mission, but we have renewed our commitment to get students excited about science and mathematics. The Educator Astronaut program will use our unique position in space to help advance our nation's education goals," he explained.

Morgan's assigned mission, STS-118, has as its primary objectives to install additional truss segments that will increase power and communications to the International Space Station, and to deliver additional supplies for the Station's crew. Morgan will participate in a number of educational events from space and be actively involved in the flight as a fully trained NASA astronaut.

Commander Scott J. Kelly (Cmdr., USN) will lead the six-member STS-

118 crew. Charles O. Hobaugh (Lt. Col., USMC) serves as the Space Shuttle's pilot. Veteran NASA astronaut Dr. Scott E. Parazynski will be making his fifth space flight. The Canadian Space Agency's Dr. David R. Williams will return to space for a second time, and Lisa M. Nowak (Cmdr., USN) will -- like Morgan -- make her first flight into space.

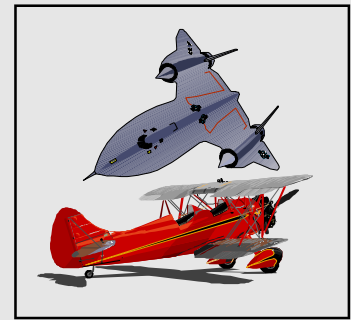
A native of McCall, Idaho, Morgan was selected in 1985 as the backup candidate for the Teacher in Space program. Following the Challenger accident, the program was suspended and Morgan worked with NASA's Education Office, meeting with teachers and students across the country to share her space training experiences and their relevance to the classroom and America's future.

In the fall of 1986 Morgan returned to teaching at McCall-Donnelly Elementary School in Idaho, but continued to travel the country in support of NASA's education efforts. In January 1998, she was selected by NASA to complete her astronaut training. For more than a year, Morgan has served as a spacecraft communicator, or CAPCOM, in Mission Control at NASA's Johnson Space Center in Houston, providing the voice link between the flight control team and crews orbiting in space.

Barbara's commitment and dedication to education is an inspiration to teachers across the country," concluded Administrator O' Keefe. "She embodies the spirit and desire of this agency to get students excited about space again, and I'm pleased that she'll be able to fulfill that mission from orbit aboard the Space Shuttle and the International Space Station," he said.

Additional information about Barbara Morgan is available on the Internet at:

<http://www.jsc.nasa.gov/Bios/htmlbios/morgan.htm>.



## VIRGINIA AVIATION MUSEUM CALENDAR

### February 24-28, 2003

#### Black History Month Celebration

Members of the Tuskegee Airmen tell fascinating stories about their lives during World War II. Call (804) 236-3622 for details.

### March 1, 2003

#### Flight of the Enola Gay

Meet Paul Tibbets, pilot of the Enola Gay, and have him autograph his book "Flight of the Enola Gay." For more information call (804) 222-8690. 2:00 p.m.

### March 8, 2003

#### Outta Sight Flight

Girl Scouts, earn your Junior Aerospace Activity badge. Explore early air travel, how things fly, women in aviation and space exploration. Cost per Girl Scout is \$15.00; chaperones \$3.00. Session 1: 10 a.m. - 1 p.m. Session 2: 2-5 p.m. For information and registration, call (804) 236-3620.

### March 15, 2003

#### Ultralight Safety Seminar

Hear the experts discuss safety techniques, maintenance and other factors in flying ultralights. For more information call (804) 236-3637.

### March 22-23, 2003

#### Wings 'n' Rails

Bring the kids and watch model trains of all scales travel through intricate layouts. Let the little ones get their hands dirty while learning to build parts of layouts. Talk with modelers about starting your own railroad.

For further information on events and schedules, call (804) 236-3622.



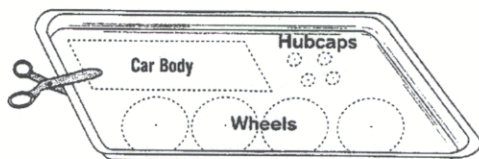
## Aviation Education Corner

### BACKGROUND:

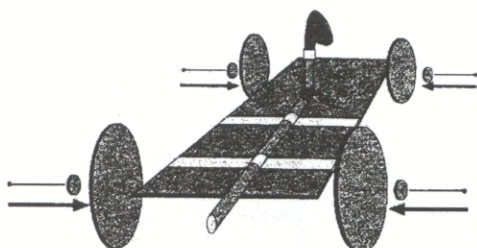
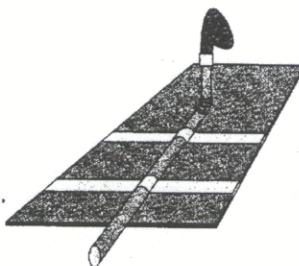
The Rocket Racer is a simple way to observe Newton's Third Law of Motion, which states that every action has an equal and opposite reaction. A rocket can lift off from a launch pad only when it expels gas from its engine. The rocket pushes on the gas, and the gas, in turn, pushes on the rocket. The straw on the racer will act as a rocket expelling air from the balloon. Try different variations on the Rocket Racer to make it go faster maybe try different size wheels, for example.

### How to Build a Rocket Racer

1. Lay out your pattern on a styrofoam tray. You need 1 car body, 4 wheels, and 4 hubcaps. Use a compass to draw the wheels.

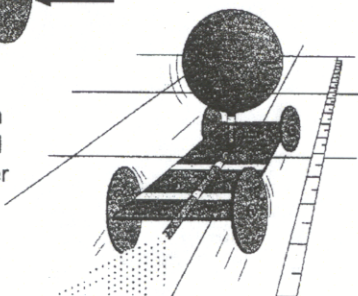


2. Blow up the balloon and let the air out. Tape the balloon to the short end of a flexible straw and then tape the straw to the rectangle.



3. Push pins through the hubcap into the wheels and then into the edges of the rectangle.

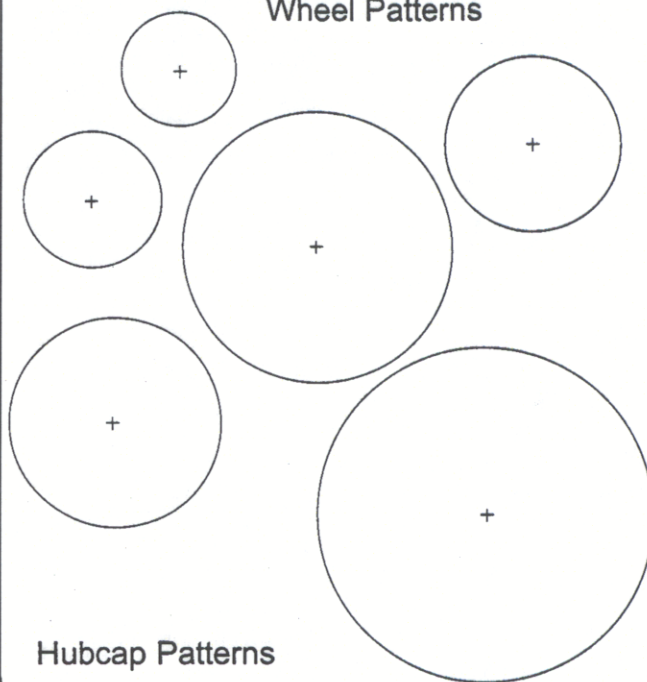
4. Blow up the balloon through the straw. Squeeze the end of the straw. Place the racer on floor and let it go.



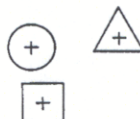
### MATERIALS:

- 4 pins
- 1 styrofoam meat tray
- Masking tape
- 1 flexible straw
- Scissors
- Marker or pen
- 1 small round x meat tray
- Ruler

### Wheel Patterns



### Hubcap Patterns



Note: These patterns are printed at 50% actual size. Use your copier to blow them up to full size.

NASA LANGLEY RESEARCH



CENTER KIDS PACKET

### Aviation & Space



### Web Sites

Aerospace Educational Laboratory  
Experimental Aircraft Association  
Johnson Space Center .....  
NCASE 2003 .....  
National Assn of Flight Instructors  
Space Day 2003 .....

[www.grc.nasa.gov/WWW/MAEL](http://www.grc.nasa.gov/WWW/MAEL)  
[www.eaa.org](http://www.eaa.org)  
[www.jsc.nasa.gov](http://www.jsc.nasa.gov)  
[www.capnhq.gov/conference](http://www.capnhq.gov/conference)  
[www.NAFInet.org](http://www.NAFInet.org)  
[www.spaceday.com](http://www.spaceday.com)

NASA LANGLEY RESEARCH



CENTER KIDS PACKET

*Last fall NASA announced new partnerships, including one with Martinsville City Schools in Martinsville, Virginia.*

## NASA and Partners Dedicate New Educational Facilities

NASA, in partnership with Miami-Dade County Public Schools, Miami, and Martinsville City Schools in Martinsville, Virginia, dedicated two new educational laboratories. The facilities will send students off to a flying start, as they explore the world of math and science using modern computer technology.

Through the newly dedicated Aerospace Educational Laboratory (AEL), which is a state-of-the-art, electronically enhanced computerized classroom, students will discover the concept of flight, as they design an aircraft and plot its flight, or take a virtual trip to the International Space Station.

"The AEL is designed to stimulate the curiosity of students. We want to make science, discovery, exploration and research exciting to engage the imagination of the Nation's youth and inspire them to pursue careers in science, mathematics, engineering and technology," said NASA Administrator Sean O' Keefe.

In Miami, Merrett Stierheim, superintendent of Miami-Dade County Public Schools; Dr. Albert E. Smith, president of Florida Memorial College; and Rep. Carrie P. Meek, 17th Congressional District participated in the dedication.

Dr. Ira R. Trollinger, superintendent, Martinsville City Schools; Joseph Finley, chairman, Martinsville City School Board; and Rep. Virgil H. Goode, Jr., 5th Congressional District were on-hand to introduce students to the classroom in Martinsville.

The laboratories are located at the new Science, Engineering, Mathematics and Aerospace Academy (SEMAA) Program sites in Miami Central Senior High School and in the Martinsville Middle School. The laboratories are part of a nationwide network of similar facilities co-sponsored by NASA and education organizations.

SEMAA exposes historically underrepresented students in grades K-12 to activities in the fields of science, engineering, mathematics and technology. The program consists of three eight-week, Saturday morning sessions with distinct curricula for each grade level. There are no student fees.

For more information about SEMAA visit [www.semaa.net](http://www.semaa.net).

For more information about AEL visit [www.grc.nasa.gov/WWW/MAEL/](http://www.grc.nasa.gov/WWW/MAEL/).

## Applications Sought for Scholarships, Internships

The EAA Aviation Foundation offers meaningful education and career opportunities for young women through two programs made possible by the Coffy Gregory Endowment: the Coffy Gregory First Flight Scholarship and the Coffy Gregory Aviation Career Internship. These outstanding programs honor the legacy of Florence Gregory, one of Illinois' first licensed women pilots and a longtime EAA member. She died in December 2000 at age 98 and bequeathed to the EAA Aviation Foundation an endowment for the purpose of advancing the future role of women in aviation.

Coffy Gregory First Flight Scholarships provide an opportunity for 10 women 16 years of age and older to receive scholarships valued up to \$2,000 each to attend the EAA First Flights Academy in Oshkosh, Wisconsin.

Coffy Gregory Aviation Career Internships are two paid, 15-week internships that provide meaningful experience in their area of interest within the EAA organization at the EAA Aviation Center in Oshkosh, Wisconsin.

For additional information visit the EAA web site at <http://www.eaa.org>.

## SCIENCE MUSEUM OF VIRGINIA CALENDAR

### EXHIBITIONS

Engineer It - Feb. 1 thru April 27, 2003

### SCIENCE DAYS PROGRAMS

Survival Science - April 12, 2003

Radical Robots - Feb. 22, 2003

Weather Watchers - March 8 and 15, 2003

Call (804) 864-1431 to register your group.

### IMAX FILMS

Jane Goodall's Wild Chimpanzees - thru June 13

The Old Man and the Sea - thru April 4

Dolphins - thru April 4

### MULTIMEDIA SHOWS

Hubble/Night Sky - Ongoing

**LIVESKY:** Informal "live" planetarium presentation of the month's celestial events. Third Friday of every month (except Oct.)

**SKYWATCH:** Third Friday of every month (weather permitting) on the front lawn.

24-Hour Information: (804) 367-0000

Box Office: (804) 367-1080

24-Hour Skywatch Information: (804) 367-8277

24-Hour TDD Information: (804) 367-9760

General Information - TDD: (804) 367-6552

Group Scheduling: (804) 367-6552

Home Page: <http://www.smv.org>

## VIRGINIA AIR AND SPACE CENTER CALENDAR

### TRAVELING EXHIBITS:

At the Controls: A Look at Cockpits

### PERMANENT EXHIBITS:

New Aviation Gallery opening Summer 2003

### IMAX FILMS:

Space Station

Australia - thru Feb. 20, 2003

Disney's The Lion King - thru April 2003

### SIGMA SERIES LECTURES:

March 4, 2003

Panel Discussion on the History of Flight by Tom D. Crouch, James R. Hansen, and James Schultz.

7:30 p.m., Riverside IMAX Theater

Call (804) 727-0900 for showtimes

Visit the Center's Home Page:

<http://www.vasc.org>

Visit the Teacher Resource Center Home

Page: <http://seastar.vasc.mus.va.us>

## Calendar of Events

### March 28-30, 2003

**Wright Flight Festival** will take place at the Franklin Institute Science Museum in Philadelphia, PA. For more information visit [www.fi.edu/wright](http://www.fi.edu/wright).

### April 2-5, 2003

**National Congress on Aviation and Space Education** will be held at the Hilton Cincinnati Netherland Plaza Hotel in Cincinnati, Ohio. For more information visit [www.capnhq.gov/conference](http://www.capnhq.gov/conference).

### May 14-18, 2003

**Celebration of Flight** will be held at Lumberton Municipal Airport in Lumberton, NC. For more information visit [www.celebrationofflightnc.com](http://www.celebrationofflightnc.com).

### May 16-26, 2003

**Festival of Flight** will be held in Fayetteville, NC. For more information visit [www.festivalofflight.org](http://www.festivalofflight.org).

### July 3-July 20, 2003

**Inventing Flight - Celebration Central at Deeds Point** will be held in Dayton, Ohio. For more information visit [www.inventingflight.com](http://www.inventingflight.com).

For more events visit: <http://www.doav.state.va.us/calendar.htm>.

## Aviation Education Supporters:

VASEF projects are funded by our membership fees and by donations from our member organizations. We would appreciate your support through membership in our organization.

\_\_\_\_\_ Regular Membership \$25.00 annually (July - Dec. \$12.50)

\_\_\_\_\_ Non-Profit Organization \$25.00 annually (July - Dec. \$12.50)

\_\_\_\_\_ Corporate Membership \$100.00 annually (July - Dec. \$50.00)

\_\_\_\_\_ New Member \_\_\_\_\_ Renewal

Date: \_\_\_\_\_

Name: \_\_\_\_\_

Name of Organization: \_\_\_\_\_

Occupation: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Telephone \_\_\_\_\_

Please Return to: Tom Tyndall, VASEF Treasurer  
5702 Gulfstream Road  
Richmond, Virginia 23250-2422



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Richmond, Va  
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### Inside:

Teachers Grant  
Recipients

NCASE 2003

Space Day 2003



# Please Post for Teachers